

B.Sc. Earth Sciences and Chemistry

Catalogue Year: 2023-2024

FIRST YEAR

SECOND YEAR

THIRD YEAR

FOURTH YEAR

FALL

WINTER

FALL

WINTER

FALL

WINTER

FALL

WINTER

ERTH 1006
Exploring Planet Earth

ERTH 1009
The Earth System Through Time

ERTH 2102
Mineralogy to Petrology

ERTH 2104
Igneous Systems, Geochemistry & Processes

ERTH 3003
Geochemistry & Geochronology

ERTH 3204
Mineral Deposits

1.0 credit EARTH 4908 Honours Thesis
or
0.5 credit EARTH 4909 Project
With 0.5 credit in EARTH 4000 level course

OR

1.0 credit CHEM 4907 Honours Essay & Research Proposal
or
1.0 credit CHEM 4908 Research Project & Seminar

CHEM 1001
General Chemistry I

CHEM 1002
General Chemistry II

ERTH 2105
Geodynamics

ERTH 2406
Geology & Map Interpretation

ERTH 3207
Metamorphic Petrology & Processes

ERTH 3806
Structural Geology

MATH 1004
Calculus for Engineering or Physics

MATH 1107
Linear Algebra I

ERTH 2314
Sedimentation and Stratigraphy

ERTH 2802*
Field Geology I

ERTH 3203*
Sedimentology

STAT 2507
Introduction to Statistical Modeling I

1.0 credit in EARTH courses at the 4000 level

PHYS 1003
Introductory Mechanics & Thermodynamics
OR
PHYS 1007
Elementary University Physics I

PHYS 1004
Introductory Mechanics & Thermodynamics
OR
PHYS 1008
Elementary University Physics II

CHEM 2302
Analytical Chemistry I

CHEM 2303
Analytical Chemistry II

ERTH 3206
Sedimentary Depositional Systems

BIOL 1104
Foundations of Biology II

1.0 credit in CHEM courses at the 4000 level

ERTH 2004
Maps, Stats & Geospatial Revolution

MATH 1005
Differential Equations
OR
MATH 2007
Elementary Calculus II

CHEM 2103
Physical Chemistry I

CHEM 2501
Introduction to Inorganic & Bioinorganic Chemistry

CHEM 3100
Physical Chemistry II

0.5 credits in approved course outside Faculty of Science/Engineering

1.5 credits in approved courses outside Faculty of Science/Engineering (may include NSCI 1000)

0.5 credits in Science Faculty Electives (not EARTH or CHEM)

CHEM 3503
Inorganic Chemistry I

■ Chemistry
 ■ NSCI
 ■ Physics
 ■ Math & Stats
■ Earth Sciences
 ■ Geomatics
 ■ Computer Science
 ■ Electives
 ■ Biology

Note:

- Field Courses marked with an * are held outside of the regular term dates.
- This is a snapshot of the Undergraduate calendar but information can change. Always consult your audit and seek advising if you are off track.
- It is your responsibility to make sure you have the necessary pre-requisite courses before registering. This information can be found in the Undergraduate calendar at: calendar.carleton.ca/undergrad/